IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A rewritable optical data storage medium ~~(20)~~ for high-speed recording by ~~means of~~ a focused radiation beam ~~(10)~~, said medium comprising a substrate ~~(7)~~ carrying a stack ~~(2)~~ of layers, ~~which~~ wherein the stack ~~comprises,~~ comprises:

a substantially transparent first auxiliary layer I1 ~~(3)~~,

a substantially transparent second auxiliary layer I2 ~~(5)~~ having a thickness d_{I2}, ~~and~~

a recording layer ~~(4)~~ of a phase-change material comprising a composition $Ge_xSn_ySb_{1-x-y}$, where $0.05<x<0.30$ and $0.15<y<0.30$, ~~which~~ wherein the recording layer is interposed between the first auxiliary layer I1 and the second auxiliary layer I2, and

a third auxiliary layer I3 ~~(6)~~ with a thickness d_{I3} acting as a

heat sink ~~and being present at a side of I2 opposite to the side of~~, wherein the second auxiliary layer I2 is interposed between the recording layer and the third auxiliary layer I3, ~~characterized in that~~

wherein $\lambda_{I2}/d_{I2}>5*10^8$ W m^{-2} K^{-1}, ~~in which formula~~ where λ_{I2} is ~~the~~ a heat conduction coefficient of the ~~material of the I2 layer~~ second auxiliary layer I2.

2. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 1, wherein the second auxiliary layer I2 ~~mainly~~ comprises $(ZnS)_{80}(SiO_2)_{20}$ and the thickness $d_{I2}<10$ nm.

3. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 1, wherein the second auxiliary layer I2 comprises at least one selected from the group of Ge_3N_4, Si_3N_4, Al_2O_3, Hf_xN_y, ITO (In_2O_3:Sn) and Ta_2O_5.

4. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 1, wherein the recording layer ~~(4)~~ has a

thickness d_p ~~and d_s~~ which is smaller than 15 nm.

5. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 1, wherein the recording layer additionally comprises at least one ~~selected from~~ of In, Ag ~~or~~ and Cu.

6. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 5, wherein the at least one In, Ag and Cu is present in a concentration up to 10 ~~at.~~%.

7. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 1, wherein the third auxiliary layer I3 ~~mainly~~ comprises Ag.

8. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~ as claimed in claim 7, wherein the thickness d_{I3} of the third auxiliary layer I3 is at least 150 nm.

9. (Currently Amended) ~~An~~ The optical data storage medium ~~(20)~~

as claimed in claim 1, ~~wherein~~ further comprising a substantially transparent fourth auxiliary layer I4 ~~(8) is present~~ between the third auxiliary layer I3 ~~(6)~~ and the second auxiliary layer I2 ~~(5)~~ for screening the third auxiliary layer I3 from a chemical influence of the second auxiliary layer I2.

10. (Currently Amended) ~~An~~ The optical data storage medium as claimed in claim 9, wherein the fourth auxiliary layer I4 ~~(8)~~ comprises at least one of Si_3N_4 ~~or~~ and Ge_3N_4.

11. (Currently Amended) ~~An~~ The optical data storage medium as claimed in claim 10, wherein the fourth auxiliary layer I4 has a thickness $d_{I4} \leq 3$ nm.

Claim 12 (Canceled)